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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/897,116	07/03/2001	Naoki Hara	50195-262	9227	
20277 7	590 08/13/2003				
MCDERMOTT WILL & EMERY			EXAMI	EXAMINER	
600 13TH STREET, N.W. WASHINGTON, DC 20005-3096			TSANG FOST	TSANG FOSTER, SUSY N	
WASHINGIO	11, DC 20003-3070	٠.			
			ART UNIT	PAPER NUMBER	
			1745		
			DATE MAILED: 08/13/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

		42	
	Application No.	Applicant(s)	
	09/897,116	HARA ET AL.	
Offic Action Summary	Examin r	Art Unit	
	Susy N Tsang-Fost r	1745	
Th MAILING DATE of this communication app Peri d for Reply	ears on the cover sh	nt with the correspondence ad	Idress
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may within the statutory minimum of ill apply and will expire SIX (6) cause the application to becon	ay a reply be timely filed of thirty (30) days will be considered timel MONTHS from the mailing date of this c ne ABANDONED (35 U.S.C. § 133).	y. omm _u nication.
Status			
1) Responsive to communication(s) filed on 22 h			
,	s action is non-final.		
3) Since this application is in condition for allowa closed in accordance with the practice under the secondary of the second			ne merits is
Disposition of Claims			
4) Claim(s) 1-15 is/are pending in the application			
4a) Of the above claim(s) 6-15 is/are withdrawn	from consideration.		
5) Claim(s) is/are allowed.		. ·	
6)⊠ Claim(s) <u>1-3 and 5</u> is/are rejected.			
7) Claim(s) 4 is/are objected to.			
8) Claim(s) are subject to restriction and/or	election requirement		
Application Papers			
9) The specification is objected to by the Examiner		to the bookless Essentians	
10) The drawing(s) filed on <u>03 July 2001</u> is/are: a)			
Applicant may not request that any objection to the 11) The proposed drawing correction filed on		_	er
If approved, corrected drawings are required in rep		disapproved by the Examina	ici.
12) The oath or declaration is objected to by the Exa	•		
Priority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.	C. & 119(a)-(d) or (f)	
a)⊠ All b)□ Some * c)□ None of:	priority arraer of the		
1.⊠ Certified copies of the priority documents	s have been received.		
2. Certified copies of the priority documents			
3. Copies of the certified copies of the prior	ity documents have b	een received in this National	Stage
application from the International But * See the attached detailed Office action for a list			
14)☐ Acknowledgment is made of a claim for domestic	c priority under 35 U.S	S.C. § 119(e) (to a provisiona	l application).
 a) ☐ The translation of the foreign language pro 15)☐ Acknowledgment is made of a claim for domesti 	• • •		
Attachment(s)			
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6 	5) 🔲 Notic	view Summary (PTO-413) Paper No e of Informal Patent Application (PT :	
S. Patent and Trademark Office			

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DETAILED ACTION

Election/Restrictions

1. Applicant's election in the first category of species directed to claims 1-5 and election of Nd for Ln, Sr for the A component, and Mg for the B component in the second category of species in Paper No. 5 are acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)). It is noted that there was a typographical error in applicant's election. Applicant elected Nd for La instead of Nd for Ln. La is an element and Ln is a variable.

2. Claims 6-15 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made without traverse in Paper No. 5.

Priority

3. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

4. The information disclosure statement filed 7/3/2001 has been considered by the Examiner.

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Drawings

- 5. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference sign(s) not mentioned in the description: Reference sign 1 does not appear to be in the specification. A proposed drawing correction, corrected drawings, or amendment to the specification to add the reference sign(s) in the description, are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.
- 6. The drawings are objected to because Figure 5 is not a Figure. Instead, Figure 5 is a table and should be incorporated into the specification. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Specification

7. The disclosure is objected to because of the following informalities:

On page 3, the formula (f-5) contains a typographical error. In formula f-5, t^mo should be t^mo since t^mo is not defined in the specification.

On page 3, lines 30-31, the statement that according to formula (f-5), the more the oxygen ion transport number t^mo increases, the more output power of the SOFC is taken appears to be inconsistent with the equations. As t^mo increases, the value of the second term decreases and therefore less output power of the SOFC is taken.

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Page 18, line 10 of the specification mentions Table 1 that is not in the specification. It appears that applicants are referring to the table of Figure 5. Tables do not usually appear as Figures in U.S. Patents but as part of the specification.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 9. Claims 1-3, and 5 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Soral et al. ("Comparison of Power Densities and Chemical Potential Variation in Solid Oxide Fuel Cells with Multilayer and Single-Layer Oxide Electrolytes", <u>J. Electrochem. Soc.</u> Vol. 145 No. 1 (1998), pp. 99-106).

See Figure 1, pages 99-101, and especially column 2 on page 100 of the reference.

10. Claims 1-3, and 5 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Miyashita et al. (US 5,731,097).

See Figures 2 and 8 and col. 5, lines 12-25 and col. 6, lines 23-48 of the reference.

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Allowable Subject Matter

11. Claim 4 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications should be directed to examiner Susy Tsang-Foster, Ph.D. whose telephone number is (703) 305-0588. The examiner can normally be reached on Monday through Thursday from 9:30 AM to 8:00.PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached at (703) 308-2383. The phone number for the organization where this application or proceeding is assigned is (703) 305-5900.

The fax phone numbers for the organization where this application or proceeding is assigned is (703) 872-9310 for regular communications and (703) 872-9311 for After-Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

st/10 August 2003

Aury Isany Foster